

# W5YI

National Volunteer Examiner Coordinator

## REPORT

Up to the minute news from the world of amateur radio, personal computing and emerging electronics. While no guarantee is made, information is from sources we believe to be reliable. May be reproduced providing credit is given to The W5YI Report.

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...and much, much more!

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February 15, 1991

## FCC CITES ELEVEN HAMS FOR PACKET VIOLATIONS

Does this signal the end of packet radio?

In an event that even captured the interest of the *New York Times*, the FCC's Norfolk, Va. office cited 11 amateur packet operators for violation of the Part 97 restrictions against business communications. They are alleged to have transmitted a message from an anti-war organization.

Three of the 11 received \$300.00 *Notices of Forfeiture* (fines). The others received letters that are equivalent to *Notices of Violation*, according to Norfolk Engineer In Charge (EIC) J. Jerry Freeman. He investigated a legitimate complaint, Freeman told us, and found that the complaint was correct.

The engineer also said he is not out on a hunt for violative packet operations, but added that with the new no-code Technician license, many new people will be getting into ham radio -- another reason why amateurs will have to "...clean up their act."

The complaint was registered by U.S. Navy officer, **Russell P. "TJ" Tjepkema/NZ2D** of Virginia Beach, VA, who felt the message in question was a prohibited amateur communication since a "...profit making 900 number" was involved. In a packet message to N3LA, "TJ" said he believed "This message violates the spirit of amateur radio in that

it has always been considered inappropriate to use amateur radio to further political causes. As a naval officer and a citizen, I strongly disagree with WA3QNS political views. However, I would fight to protect his right to state them, First Amendment. Since free speech does not apply to ham radio, however (i.e. money making is prohibited), I will fight against this type of bulletin. I intend to visit the local FCC office with a copy of this bulletin with the intent of getting their opinion. If they agree, I plan to file a formal complaint. ..." The FCC agreed and the "tickets" were subsequently dispatched.

### *Citations issued*

According to AMSAT President Emeritus **Tom Clark, W3IWI**, the citations "...may well spell the end to much of amateur packet radio." Clark was one of those cited by the FCC. He described the FCC's "demand" for a response within 10 days as "...chilling".

This appears to be the first time that the Commission has enforced the rules against operators of packet stations who retransmitted an allegedly violative bulletin that originated at another station. A debate has raged for years over whether operators of intermediate stations in a packet network



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**WOULD YOU LIKE TO BECOME A VOLUNTEER EXAMINER?**

\_\_\_\_\_

I am currently licensed ☐ Advanced, ☐ Extra Class amateur radio operator wishing to assist in the licensing process.

I have been a volunteer examiner for \_\_\_\_\_ years.

I have been a volunteer examiner for \_\_\_\_\_ years.

I do not own a station or operator license revoked or suspended., I do not own a station or operator license revoked or suspended.

Subject: Call This Number, ASAP  
VOTING BY PHONE - PHONE 1-900-44-NO WAR!  
Conf: mideast gulf  
Coalition to Stop U.S. Intervention in the Middle  
East - (October 20 Coalition)  
36 East 12th Street, 6th Floor, NY, NY 10003  
Phone (212) 254-2295 Fax (212) 979-1583  
December 7, 1990 - The coalition has a national  
"900" phone number to tell Bush "NO WAR". The  
number is 1-900-44-NO WAR (starting Dec. 16).  
Please use it. A record of each call, by area code  
and region, will be taken with the petitions to  
Washington. You may contact the coalition for  
stickers and flyers to publicize this number, plus  
copies of the petition for a million signatures  
against the war, and other organizing literature.  
*(End of packet message)*



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## BBS operations to change?

Sysops and users of packet BBSs appear to be furious or confused about what to do about the FCC citation. Some are placing messages asking how to contact the FCC. Others are stating that they will screen messages going through their systems. Typical were these statements seen on packet systems around the country:

"Hello guys... I received a certified letter today from the Norfolk FCC Engineer in Charge informing me I have violated Section 97.113(a), and must forfeit \$300.00 fine or show cause why this fine should not be levied. It has to do with the forwarding of the WA3QNS 900 number message which appeared Jan 6 or thereabouts. (I killed it as soon as I read it, but it surely forwarded before I did).

"Take note... I must now HOLD ALL TRAFFIC through this board until I have reviewed it, for my own safety, and I suggest you do the same!!! If anyone else has been cited (the header trail is N4HOG, WB0TAX, WA4ONG, W3IWI....) let me know. I will try to persuade the FCC this was NOT a willful act, but I suspect it will be an uphill battle."

"This is a VERY BAD SIGN! If this is upheld, my BBS may have to shut down, as I cannot review every message, or even every bulletin, that passes through it. I suspect all 'hub' operators will be in the same boat. I always understood that the originator of a message had the full responsibility for the content. If I am to be held fully responsible for the contents of every message on my BBS, I'll simply shut it off. Watch this closely, it could spell the end of BBS operations as we currently know them."

"I want to make public at this time that this BBS, which handles bulletins for @USA...now screens all bulletins addressed as @USA, @ALLUS, @ALLUSA, and @ALLBBS.

"This is now being done to help prevent this station from receiving a citation from the FCC. It is not to upset anyone, but don't you think a sysop [system operator] has a right to protect his license in order to continue to operate? Also

myself, as well as most all other sysops have a good bit of money invested in order to provide links throughout the world via packet networks, for many users."

## Message condom

The most extensive response to the enforcement action was aired by W3IWI, who operates one of the major packet message forwarding centers in the Washington D.C. area. He recommended a "...message condom" technique to screen out undesired messages. Here are excerpts:

"The implications of the action by the FCC's Norfolk Field Office are absolutely appalling. What is implied is that each and every station in a store-and-forward network is responsible for the actual message CONTENT passing through each node. The BBSs were cited because their calls were in the message header "audit trail". The FCC's action states that each BBS SYSOP is personally responsible for the 'correctness' of all messages merely passing through his system. Here, the W3IWI mail switch handles about 10,000 messages per month automatically. There is NO WAY that I can vouch for every bit that passes through!

"In future networks...it is quite possible that a given message will be fragmented and parts of it sent via several parallel paths. The message may exist as a complete entity only at the ends of a virtual path. It would be impossible to implement the censorship the FCC seems to be demanding with such a network, so the "legality" will interfere with development of new technology.

"Consider another recent development: amateur packet radio satellites. PACSAT is licensed by the FCC with a US trustee and a cadre of US sysops. PACSAT is, in essence, a flying BBS with the sysops on the ground.

"In order to screen out "offensive" messages, a ground-based sysop has to use a radio channel to verify message CONTENT. But the FCC letter says that the very act of reading an "offensive" message on the radio is illegal. If the Norfolk FCC action is allowed to stand, the logical implication is that PACSATs must be turned off!



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"A number of us have discussed such issues with responsible individuals at the FCC in Washington ever since the first fledgling days of packet radio. The signal that the FCC sent was that the sole responsibility for the CONTENT of a message lays with the ORIGINATOR. The actions of the Norfolk Office seem to indicate a new policy has been adopted which effectively kills packet radio.

"Personally, I have been silent (but very frustrated) about the 10% of bulletins addressed @USA (or @ALLUS, @ALLBBS, etc.) that are in poor taste. I have grown tired of blather about censorship, First Amendment Rights and the incredible volumes of hate mail... I have longed for the return to normalcy with messages on technical topics and personal communications. I have found it frustrating to pay the electric power bill and pay for the W3IWI hardware for others to engage in marginally offensive 'Free Speech'. I have wished that the (ab)users of @USA would have exercised more discretion with self-censorship.

"But I have gritted what teeth I have left and avoided being a censor. Now, the FCC's CENSURE has left me with no alternative than to be a CENSOR.

"Until the FCC tells me that I can do otherwise, I will only release @USA messages that I personally screen and am willing to stake my license on. The priority on my time is such that I don't expect to have time to screen @USA bulletins. ...

"For other SYSOPs: my way to do this is to have my SWAP file change all @USA etcetera to a dummy address like @HOLD -- thereby preserving any BIDs so I don't get deluged with multiple copies of the same message. Until we get a clarification I would recommend that you also use a similar message condom and practice "...Safe BBS".

## Comment

It looks like the citations will help sysops to exercise greater restraint in airing or forwarding bulletins addressed to ALL at USA or versions of this address. Such bulletins have long congested packet channels with swap-and-shop content or

inane tirades that propagate nationwide over the entire network within a few hours.

It's hard to imagine the FCC sending a signal that only message originators are responsible for complying with Part 97. The ARRL has been seeking just such a provision, but has been rebuffed by the FCC. In PR Docket 90-561, the Commission noted that "The concept of control of an amateur station and responsibility for the station's transmissions...is based on Section §310(d) of the Communications Act. Control is not severable into technical control, content control of messages the licensee originates, and content control of messages originated by other users. ...

"All rules apply individually to each amateur station in the system, not to the resulting system. ***Each station licensee and each station control operator is responsible for the messages transmitted as well as those retransmitted by the station. Therefore no change in the rule is proposed.***"

## TELEGRAPHY TEST EXEMPTION PROCEDURE

The FCC has issued new administrative procedures concerning "Making the Amateur Service More Accessible to Persons with Handicaps."

Marcus D. Stevens, Chief, Special Services Branch, Gettysburg, PA, sent a new **Physician's Certification of Disability** format to all VECs on January 29th. The new certification/release form is to be used on/after Feb. 14th on all requests by severely disabled persons for an exemption of the amateur service 13/20 WPM telegraphy requirements. "We will accept the previous format of the physician's certification until March 31, 1991. After that date any application with an 'old' physician's certification will be returned." All certifications must contain original signatures; photocopied signatures are not accepted.

The FCC's Personal Radio Bureau, Washington, DC, simultaneously issued **FACT SHEET No. 205** which gives information to physicians concerning Morse code testing and the 13 and 20 WPM telegraphy exemptions. [We had these typeset for our W5YI-VEC operation and they are reproduced on the next two pages for your information.]

AMECO LICENSE PREPARATION MANUALS - Contain all Amateur Radio Examination questions, multiple choices, correct answer identified, and explanation why answer is correct. Technician/General Radio Exam questions, correct answer identified, and explanation why answer is correct. Study all 1,931 questions appearing in all written examinations by licensees and sub-element tests at your IBM compatible keyboard! Take sample ham radio



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## PHYSICIAN'S CERTIFICATION OF DISABILITY

*Amateur Service - 13/20 WPM Telegraphy Exemption*

Physician's Name: \_\_\_\_\_

Physician's Address: \_\_\_\_\_

Office Telephone Number: (\_\_\_\_) \_\_\_\_\_

I certify that \_\_\_\_\_ is severely handicapped.  
(Applicant's Name)

Because of this severe handicap, this individual is unable to pass a 13 (or 20) words per minute telegraphy examination for an amateur operator license.

I am licensed to practice in a place where the amateur service is regulated by the Federal Communications Commission as a doctor of medicine (M.D.) or a doctor of osteopathy (D.O.)

**WILLFUL FALSE STATEMENTS ARE PUNISHABLE  
BY FINE AND IMPRISONMENT.  
U.S. CODE TITLE 18, SECTION 1001**

\_\_\_\_\_  
(Signature) (M.D. or D.O.)

\_\_\_\_\_  
Physician's Name (typed or printed) Date: \_\_\_\_\_

## PATIENT'S RELEASE

Authorization is hereby given to the physician named above, who participated in my care, to release to the Federal Communications Commission any medical information deemed necessary to process my application for an amateur radio license.

\_\_\_\_\_  
(Applicant's Signature)

\_\_\_\_\_  
Applicant's Name (typed or printed) Date: \_\_\_\_\_

Form No. W5YI-VEC 7120-2



## Federal Communications Commission - Private Radio Bureau

### FACT SHEET No. 205 - February 1991

#### INFORMATION FOR PHYSICIANS WHO CERTIFY THAT AN INDIVIDUAL IS UNABLE TO PASS A TELEGRAPHY EXAMINATION FOR AN AMATEUR RADIO OPERATOR LICENSE.

Applicants for certain amateur radio operator licenses can be granted credit for the Morse code portions of the examinations, if such applicants have severe handicaps that prevent them from passing the required test. The procedure to request credit is by submission of a physician's certificate indicating that the applicant has such a severe handicap.

The physician's certification is used by an examinee to receive telegraphy examination credit toward a General, Advanced, or Amateur Extra Class amateur operator license. These are the higher grades of a five-tier license structure. Each level carries additional operating privileges as an incentive for amateur operators to improve their communication and technical skills. To receive the examination credit, the individual must already have qualified for a Novice Class operator license by proving to volunteer examiners (VEs) in the community that he/she knows the required 43 Morse code characters at a speed of at least 5 words per minute (wpm).

Some six to seven thousand persons pass the 13 and 20 wpm telegraphy examinations annually. The examination consists of a five minute message comprised of a series of dots and dashes sent in an audible tone. The tone may be adjusted in frequency and volume to accommodate the examinee. The examinee must answer correctly questions about the content of the message.

Upon request, the VEs who administer the examinations employ special accommodative procedures. They administer the examination at a place convenient and comfortable to the examinee, even bedside. For a deaf person, the dots and dashes are sent to a vibrating surface or a flashing light. The VEs may read the questions to blind persons. The VEs also write for the examinee where the examinee is unable to do so. Where warranted, the VEs pause in sending the message after each sentence, each phrase, each word, or each character to allow the examinee additional time to absorb and interpret what was sent. Also, the VEs substitute a sending test for a receiving test where the examinee's particular handicap precludes a receiving test.

The physician should execute a certification only when the nature of the individual's handicap is so severe as to prevent the passing of a 13 or 20 wpm telegraphy examination, even where the above special accommodative procedures are used. The certifying physician (either an M.D. or D.O.) must be licensed to practice in the United States or its territories. The individual must sign a release permitting disclosure to the FCC of the medical information pertaining to the person's handicap.

No handicapped person is required to apply for exemption from the higher speed telegraphy examination, nor is anyone denied the opportunity to take the examination. There is also available to all persons, handicapped or not, the Technician Class operator license that does not require passing a telegraphy examination.

For additional information contact:

**W5YI-VEC**  
P.O. Box 565101  
Dallas, Texas 75356  
Tel. (817) 461-6443



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## DECEMBER VE PROGRAM STATISTICS

| <u>December</u>                            | <u>1988</u>  | <u>1989</u>  | <u>1990</u>   |
|--|--------------|--------------|---------------|
| <u>No. VEC's</u>                           | <u>18</u>    | <u>18</u>    | <u>18</u>     |
| <u>Testing Sessions</u>                    | <u>465</u>   | <u>512</u>   | <u>640</u>    |
| <u>VEC</u>                                 | <u>1988</u>  | <u>1989</u>  | <u>1990</u>   |
| ARRL                                       | 35.5%        | 50.0%        | 47.3%         |
| W5YI                                       | 39.1         | 27.2         | 34.4          |
| CAVEC                                      | 5.1          | 4.8          | 4.5           |
| DeVRY                                      | 4.2          | 4.1          | 3.1           |
| Others (14)                                | 15.3         | 13.9         | 10.7          |
| <u>Year-to-Date Sessions</u>               | <u>4903</u>  | <u>5486</u>  | <u>6250</u>   |
| <u>Elements Administ.</u>                  | <u>8350</u>  | <u>7675</u>  | <u>9330</u>   |
| <u>VEC</u>                                 | <u>1988</u>  | <u>1989</u>  | <u>1990</u>   |
| ARRL                                       | 46.8%        | 59.9%        | 52.3%         |
| W5YI                                       | 31.5         | 19.0         | 28.7          |
| CAVEC                                      | 4.9          | 5.8          | 4.8           |
| DeVRY                                      | 6.7          | 5.1          | 3.1           |
| Others (14)                                | 13.2         | 16.2         | 12.2          |
| <u>Year-to-Date Elements</u>               | <u>89788</u> | <u>96092</u> | <u>105763</u> |
| <u>Applicants Tested</u>                   | <u>4831</u>  | <u>4683</u>  | <u>5765</u>   |
| <u>VEC</u>                                 | <u>1988</u>  | <u>1989</u>  | <u>1990</u>   |
| ARRL                                       | 47.1%        | 54.8%        | 50.9%         |
| W5YI                                       | 31.1         | 22.6         | 29.6          |
| CAVEC                                      | 4.3          | 5.0          | 4.4           |
| DeVry                                      | 5.0          | 2.8          | 3.0           |
| Others (14)                                | 11.2         | 13.8         | 12.1          |
| <u>Year-to-Date Tested</u>                 | <u>53546</u> | <u>57417</u> | <u>64737</u>  |
| <u>December</u>                            | <u>1988</u>  | <u>1989</u>  | <u>1990</u>   |
| Pass Rate - All                            | 60.5%        | 58.6%        | 60.0%         |
| Upgrade Rate - W5YI                        | 58.2         | 56.7         | 57.6          |
| Applicants/Session                         | 9.1          | 10.1         | 9.0           |
| Appl./Session W5YI                         | 8.3          | 8.4          | 8.1           |
| Elements/Applicant                         | 1.7          | 1.6          | 1.6           |
| Sessions Per VEC                           | 29.4         | 25.8         | 35.6          |
| <u>Administrative Errors by VE's/VEC's</u> |              |              |               |
| <u>December</u>                            | <u>1988</u>  | <u>1989</u>  | <u>1990</u>   |
| Defect. Applications                       | 0.8%         | 0.6%         | 1.0%          |
| Late Filed Sessions                        | 1.3%         | 0.2%         | 0.2%          |
| Defective Reports                          | 1.3%         | 1.5%         | 0.0%          |

## VE/VEC Program Growth - 1985 to 1991

| <u>Year</u> | <u>VECs</u> | <u>Sess.</u> | <u>Applic.</u> | <u>Elem.</u> | <u>Pass</u> | <u>Appl/Sess</u> |
|-------------|-------------|--------------|----------------|--------------|-------------|------------------|
| 1985        | 18          | 3223         | 41439          | 62589        | 58.17%      | 12.92            |
| 1986        | 18          | 3784         | 42422          | 61921        | 59.65%      | 11.21            |
| 1987        | 18          | 4378         | 49728          | 81042        | 60.58%      | 11.36            |
| 1988        | 18          | 4903         | 53546          | 89788        | 60.99%      | 10.92            |
| 1989        | 18          | 5486         | 57417          | 96092        | 61.49%      | 10.47            |
| 1990        | 18          | 6250         | 64737          | 105763       | 60.78%      | 10.36            |

[Source: Personal Radio Branch/FCC; Washington, D.C.]

## DECEMBER AMATEUR LICENSING STATISTICS

| <u>December</u>  | <u>1987</u>   | <u>1988</u>    | <u>1989</u>     | <u>1990</u>   |               |
|--|---------------|----------------|-----------------|---------------|---------------|
| New  |               |                |                 |               |               |
| Amateurs:  | 2582          | 2144           | 2170            | 3308          |               |
| <u>Upgrading:</u>                                      |               |                |                 |               |               |
| Novices  | 1208          | 711            | 1168            | 1326          |               |
| Technicians  | 421           | 248            | 493             | 622           |               |
| Generals   | 394           | 201            | 338             | 398           |               |
| Advanced   | <u>271</u>    | <u>117</u>     | <u>230</u>      | <u>285</u>    |               |
| <u>Total:</u>  | <u>2294</u>   | <u>1277</u>    | <u>2229</u>     | <u>2631</u>   |               |
| <u>Renewals: (*)</u>                                   |               |                |                 |               |               |
| Total Renew:   | 3469          | 1874           | * 107           | * 49          |               |
| Novices  | 216           | 165            | * 13            | * 8           |               |
| <u>Purged:</u>   |               |                |                 |               |               |
| Total Dropped:   | 1020          | 1645           | 1048            | 1431          |               |
| Novices  | 452           | 467            | 381             | 639           |               |
| <u>Census:</u>   |               |                |                 |               |               |
| Indiv. Oper.   | 433389        | 440311         | 470792          | 500243        |               |
| Change/Year -  | 13627         | + 6922         | +30481*         | +29451*       |               |
| <u>Individual Operators by Class: (and % of total)</u> |               |                |                 |               |               |
| <u>Extra</u>   | <u>Advan.</u> | <u>General</u> | <u>Technic.</u> | <u>Novice</u> | <u>Total:</u> |
| <u>December 1987</u>                                   |               |                |                 |               |               |
| 43902  | 98610         | 114398         | 93466           | 83013         | 433389        |
| 10.1%  | 22.8%         | 26.5%          | 21.5%           | 19.1%         | 100.0%        |
| <u>December 1988</u>                                   |               |                |                 |               |               |
| 46885  | 98681         | 113082         | 101495          | 80168         | 440311        |
| 10.6%  | 22.4%         | 25.7%          | 23.1%           | 18.2%         | 100.0%        |
| <u>December 1989 (*)</u>                               |               |                |                 |               |               |
| 50324  | 102141        | 117153         | 115427          | 85747         | 470792        |
| 10.7%  | 21.7%         | 24.9%          | 24.5%           | 18.2%         | 100.0%        |
| <u>December 1990 (*)</u>                               |               |                |                 |               |               |
| 53836  | 105309        | 119796         | 127427          | 93875         | 500243        |
| 10.8%  | 21.0%         | 23.9%          | 25.5%           | 18.8%         | 100.0%        |
| Club/  |               |                |                 |               |               |
| RACES &  | (1987)        | (1988)         | (1989)          | (1990)        |               |
| Military:  | <u>2408</u>   | <u>2263</u>    | <u>2459</u>     | <u>2434</u>   |               |
| Total Active:  | 435797        | 442574         | 473251          | 502677        |               |
| % Increase   | +3.2%         | +1.6%          | +6.9%*          | +6.22%*       |               |

(\*) NOTE: The number of amateurs in 1989 and 1990 is not comparable with prior years. Due to the implementation of the 10-year term license in 1984, amateurs who would ordinarily be dropping out of the Amateur Service between 1989 and 1993 by not renewing will be carried on the amateur roles for another five years before being purged from the FCC's data base. This has the effect of overstating the amateur census for 1989 and 1990 since the records of silent keys and non-renewals will not be deleted. For the first time, however, the number of active amateur records exceeds half a million!

[Source: FCC Licensing Facility, Gettysburg, PA]



## MISCELLANEOUS PART 97 AMENDMENTS

In response to several petitions for rule making, the FCC proposed on Nov. 16, 1990 several changes in the Part 97 rules governing the Amateur Services.

In comments filed Jan. 31, the ARRL contends that its suggested definitions of certain satellite terms should be adopted since they were taken from other FCC Rules "...and in fact are the ITU definitions." The League also feels the amateur radio meaning of "spurious emission" should conform to the definition used by the Commission in other services. They also objected to the use of the word "channel" when referring to radio frequencies.

The ARRL strongly felt that the application of ordinary control operator regulations to stations operating under automatic (repeater/packet) control had potential injustices. They pointed out that remedies to rule violations generally must be applied after the offense takes place and this does not absolve the amateur from the fact that his station made an illegal transmission. ARRL believes it unfair to hold amateurs responsible when they lack the ability to prevent certain violations in advance. The League says "A general rule is fine, but where the technical characteristics of the particular operating technique demand variation therefrom, the regulatory scheme should be flexible enough to accommodate rather than ignore, the problem."

The ARRL also agreed with the FCC's proposal to reduce scheduled bulletin/CW practice from all ten MF and HF bands to six as a prerequisite to permitting the amateur operator to be paid. They wanted the Part 97 rule to require *simultaneous* six band operation to limit the stations which may compensate operators

**David C. Bland, KB0GR** objected to a petitioner who wanted a "beginning identification" so a determination could be made whether that station should be allowed access to his repeater. Bland said he opposed any changes in the current streamlined amateur ID procedure and that well-proven methods were available to prevent unwanted access.

The Radio Amateur Satellite Corp. also questioned the definition of "space telemetry." They want it changed to "A one-way transmission from a space station of measurements made in a spacecraft, messages intended to facilitate communications or related to the functioning of the spacecraft." AMSAT also wanted the FCC to clarify rules relating to the retransmission from space of radio messages originating from earth.

AMSAT contends that it is stored messages and not the originating radio signals that are actually retransmitted. They ask the FCC to agree that the forwarding of digital packet messages is the functional equivalent of the retransmission of radio signals and as such may be carried on under automatic control. (*Comments filed by AMSAT president Douglas Loughmiller, KO5I*)

## HF PROBLEMS:

### Phone Patches Banned? Net Responses Study

Rumors that the FCC banned phone patches from the ham airwaves on February 1 or February 15 are circulating widely via packet and HF nets, and are generating numerous calls to the FCC. Like the Desert Storm special amateur procedures, which were January's "Rumor of the Month," the phone patch rumor is entirely false, according to Personal Radio Branch personnel.

The Commission has no official proposals to ban phone patching on the table at this time. If it did, it would still have to follow the *Administrative Procedures Act*, which requires publication of the proposed changes, followed by comments from the public and a *Report and Order (R&O)* adopting the changes, or a *Memorandum Opinion and Order (MO&O)* declining to take any action. This is followed by a period during which *Petitions for Reconsideration* may be filed.

None of these events has taken place in the case of phone patching.

The troubles with phone patch abuse were mentioned by Special Services Division Chief Robert McNamara in letters last year to net managers. McNamara's letters also expressed serious concern about alleged bulletin and code-practice rule abuses and the unlawful use of Amateur Radio to promote the regular business affairs of any for-profit or non-profit groups or persons.

He suggested that new rules -- *possibly* including banning patches or confining them to special frequencies -- might be required to solve HF problems if the amateur community could not voluntarily solve them. Such rule changes, however, were only mentioned for discussion purposes and do not have the status of an official FCC *Notice of Proposed Rulemaking*.

McNamara asked net managers and other interested parties to respond to the FCC with practical suggestions on how to improve conditions on 20 meters. Several of our previous issues reported the responses, which for the most part denied there were problems

plus \$2.00 shipping charge

Only \$9.95

NEW!!

The Radio Amateur's LICENSING HANDBOOK is for everyone who wants to know about amateur radio license tests, amateurs

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SATISFACTION



# W5YI REPORT

National Volunteer Examiner Coordinator

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serious enough to require radical rule changes.

**Glenn Baxter/K1MAN** of the *International Amateur Radio Network (IARN)*, requested and received an extension of time to February 1st in which to provide a plan for resolving the HF situation. Baxter -- who himself is in receipt of *Notices of Forfeiture* in the amount of \$3,400 -- replied to the FCC on January 29th:

"I am now of the opinion that the problem has resolved itself, and that a joint plan is not needed or even possible. Just as asking the 50 states to submit a 'joint plan' for self-government is not practical, neither is it practical to ask the nets to cooperate in an artificial way. The flurry of *Notices of Violation* and *Apparent Liability* did the trick and now it is time for a cease fire. It would be wise to quietly call off your dogs now and let me and others do our thing. We are a nation at war now, and I would like the pissing contest with the FCC to stop. Enough already! [Signed: Glenn A. Baxter.]"

**Bob Greenberg, W8ZTS**, also submitted a letter to the FCC on Jan. 29th, agreeing "...the controversy and the interference at the Net frequency has been alleviated. No longer is the original anti-net/anti-phone patch group or any other group willing to risk FCC citations for direct interference and harassment. It is obvious to a frequent observer that the original complaints about the Nets (then at 14.313 MHz) were without substance and were contrived." Greenberg added "...the fussing on other 20 meter frequencies near the Nets" have no relationship to the Nets. He believes any attempt to impose a solution to this "non-problem" will merely create more problems.

## ARRL RECEIVES NON-AMATEUR SATELLITE LICENSE

The FCC has granted the ARRL an experimental license for satellite operations on 149.195 MHz. But the government clearly objects to treating this operation like a ham station!

NASA, other federal agencies, and private entities have participated in experiments to demonstrate search and rescue, disaster communications, and other uses of satellite service in emergency response. The experiments use NASA's *Applications Technology Satellite (ATS-3)*. Experimenters have learned that there is a crucial need to establish a procedure for accessing the satellite for emergency communications.

ARRL wants to participate in the ATS-3 emergency net held weekly, and to use the satellite during incidents.

NASA's ATS Experiments Manager approved ARRL's request, with certain conditions attached.

"As a member of the network, you are responsible for procurement and maintenance of your own equipment," NASA told the League. "The network meets every Wednesday at 1900 GMT on FM Channel 2. The use of SSB or ACSB on ATS-3 is possible, but is not currently a standard practice on the weekly check-in. ACSB channel assignments have been made and use of this mode is encouraged. ...Use of the satellite for mock emergencies or equipment checks outside of the assigned time must be coordinated with the ATS Operations Control Center.

"It is important to avoid the use of Amateur Radio call signs for normal station identification. Instead, an identification such as ARRL-Newington and ARRL-(field location) in addition to your assigned license call, non-Amateur, is required. This is an attempt to avoid any semblance of Amateur Radio-type traffic on the satellite which could possibly give an impression of a 'repeater in the sky' that is available to anyone having the equipment to access ATS-3.

"Amateur call signs may, however, be mentioned over the satellite when used for the purpose of coordinating ARRL operators, equipment and frequencies during an emergency. Of course, no casual conversations unrelated to the purpose of this experiment ("rag-chewing") are permitted on the satellite at any time. Your cooperation in these sensitive areas will be appreciated."

## APPLE PETITIONS FOR WIRELESS LAN

Apple Computer, Inc. has filed RM-7618, a *Petition for Rulemaking to Create a new Data Personal Communications Service (Data-PCS)*. The service would operate within the 1850-1890 MHz (1.85-1.89 GHz) band now used by some point-to-point microwave operations. Amateur spectrum would not be used by Data-PCS. It would be completely non-licensed, 1 W maximum power, and is especially aimed at laptop computer communications.

"If Apple's petition is approved, personal computer users in the future will be able to communicate with other users and with computer peripherals within a building or a campus over radio waves," the company said. "This innovation would eliminate the need, in many cases, for local communications to travel on wired networks."

Other wireless local area network products do exist.



Most of them are aimed at fixed, not portable, operation in business environments. They operate under Part 15 rules in the 902-928 MHz spectrum that is shared between government operations, Automatic Vehicle Monitoring (AVM), Amateur Radio, and Industrial-Scientific-Medical (ISM) devices that use RF, such as gluing machines and therapy equipment.

Apple said that this 902-928 MHz band and the other ISM bands at 2.4 and 5.7 GHz aren't good for data personal communications. "After extensive testing, Apple has concluded that such operation in the ISM bands ultimately will be unworkable, because there is a strong likelihood of unpredictable, and essentially uncontrollable, interference in the ISM bands." The company noted that high power stations are permitted in these bands (including ham stations) and thus spectrum in a different band, 1.8 GHz, is needed.

## **Requirements for Data-PCS**

Apple described Data-PCS as a "...user-driven, open-access high-capacity computer communications technology". The January 29th *Wall Street Journal* quoted John Sculley, Apple's chief executive officer as saying "We believe it is essential that computer users have access to this vital communications resource in the future." The petition tells the FCC:

"A Data-PCS must be open to any computer manufacturer's products and any network access and usage scheme that complies with regulatory requirements...

"It must not impose licensing obligations or air-time charges upon users of personal computers.

"It must have adequate bandwidth to support high-speed, highly-reliable data communications between and among various types of PCs and peripherals over a 50-meter range, primarily within a single building.

"A Data-PCS radio service must be regulated in a manner that assures that the assigned frequencies will be used by compatible devices for like purposes and that there will be fair access to the frequencies for such devices and purposes.

"Flexibility must be built into the initial regulatory scheme to encourage innovation in and the evolution of Data-PCS technologies and services."

The service would be controlled primarily by FCC equipment certification. Each transmitter would transmit a universal ID with the format selected by industry-

FCC cooperation. Directional antennas would be permitted, and all units would transmit in a packetized format with modulation and encryption to be left to the individual manufacturer.

There would be a minimum required period of listening for traffic before transmitting, and a maximum allowed duration of continuous channel occupancy.

## **Educational use**

"Despite the millions of computers now used in schools around the world," Apple said, "the true power of the computer as an aid to learning has been only partially realized. ...In today's budgetary environment, installing the cabling required for students to use computers collaboratively is prohibitively expensive. Even if funds could be found for hard wiring, it is excessively timeconsuming and constraining to re-arrange a wired network, once installed, as teachers move students among reading, math and writing groups. ...

Data-PCS can make it possible for schools not only to afford to employ networked computers, but also to take advantage of 'situation-driven' learning, that happens spontaneously and results from interaction among students and teachers."

We think that the Apple petition will have a good chance of success if PC users get behind it. Existing microwave users -- which include the oil and gas industry, municipalities and public works projects, in the band of interest -- may balk unless they can be shown that the low-power, indoor Data-PCS would not interfere with their operations.

The FCC is also examining how to use this same band of spectrum for new Personal Communications Services for voice use. Potential providers of voice PCS may not want to accommodate a separate Data-PCS and may lobby the FCC to deny or move the Apple request to other spectrum -- if any can be found!

We believe that hams should consider supporting Data-PCS because if approved, in the band requested, it could reduce the pressure on amateur spectrum from commercial interests who want to introduce new products and technologies. It should provide interesting opportunities for smallscale packet communications in business and personal use. The FCC is taking comments on the petition till March 7, 1991. Be sure to write "RM-7618" on your letter to the Secretary, FCC, Washington DC 20554.